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	Application No.	Applicant(s)
Notice of Allowability	09/602,059	MCKENNA ET AL.
	Examiner	Art Unit
	Mary A. El-Shammaa	2883
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the 85) or other appropriate communing RIGHTS. This application is sub-	is application. If not included cation will be mailed in due course. THIS
1. X This communication is responsive to Amendment filed	<u>5/5/05</u> .	
2. ☑ The allowed claim(s) is/are <u>1-57</u> .		
3. $igotimes$ The drawings filed on 23 June 2000 are accepted by th	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents h 2. Certified copies of the priority documents h 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). 	ave been received. ave been received in Application	No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which		
6. CORRECTED DRAWINGS (as "replacement sheets") r	must be submitted.	
(a) including changes required by the Notice of Draftsp	person's Patent Drawing Review (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	·	
(b) including changes required by the attached Examin Paper No./Mail Date	ner's Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such		
 DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Infor	mal Patent Application (PTO-152)
2. 🗌 Notice of Draftperson's Patent Drawing Review (PTO-94		
Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date	Paper No./Ma B/08), 7. ☐ Examiner's Ar	nil Date nendment/Comment
4. Examiner's Comment Regarding Requirement for Depos	sit 8. ⊠ Examiner's St	atement of Reasons for Allowance
of Biological Material	9. 🗌 Other	

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DETAILED ACTION

Allowable Subject Matter

Claims 1-57 are allowed.

The following is an examiner's statement of reasons for allowance: the Examiner agrees with Applicant's arguments. Regarding independent claims 1, 15, 30, 37, 45, and 52, the prior art fails to teach or fairly suggest, in addition to the accompanying features of the claims, the following in italics: an ion implanter and a method for implanting ions comprising an ion source for generating a low energy, monoenergetic ion beam at a first voltage for delivery to an ion implantation target, an analyzer, a beam transport device for transporting the ion beam through the analyzer at a first transport energy, a deceleration stage positioned downstream of the analyzer for decelerating the ion beam from said first transport energy to a final energy lower than said first transport energy for transport without excessive beam expansion, a beam filter, and a target site. Claims 2-14, 16-29, 31-36, 38-44, 46-51, and 53-57 are allowable by virtue of their dependency.

The prior art (US 6,242,750 B1) discloses an ion implanter having an ion source for generating an ion beam for delivery into an ion implantation target. However, the prior art does not disclose the ion source generating a low energy, monoenergetic ion beam. In fact, the generated beam has a high energy and then is decelerated by electrodes before reaching the target implantation site (See US 6,242,750 B1 col. 3, lines 12-19).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mary A. El-Shammaa whose telephone number is 571.272.2469.

The examiner can normally be reached on M-F (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Frank G. Font can be reached on 571.272.2415. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAE

June 24, 2005

Frank G. Font Supervisory Patent Examiner

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Technology Center 2800

Frank & Font